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October 13, 2004 Project 101960

Mr. Joseph T. Martella, II Rhode Island Department of Environmental Management Office of Waste Management 235 Promenade Street Providence, RI 02908-5767

#### Re:

Monthly Status Report-September 2004 Former Gorham Manufacturing Facility 333 Adelaide Avenue, Providence, RI Site Remediation Case No. 97-030

Dear Mr. Martella:

Shaw Environmental, Inc. (Shaw) has prepared this monthly status report on behalf of Textron, Inc. (Textron). This status report is for the remediation of tetrachloroethene (PCE) contaminated groundwater at the former Gorham Manufacturing Facility in Providence, Rhode Island (Figure 1). The Rhode Island Department of Environmental Management (RIDEM) originally approved the groundwater remediation in a Revised Order of Approval dated March 15, 2002. A revised RAWP was prepared by Shaw dated June 11, 2004 providing a final plan for the follow-on injection of sodium permanganate as part of the remediation of PCE contaminated groundwater. The Revised RAWP was approved by RIDEM in a letter dated July 27, 2004.

Field activities associated with this Site resumed in September 2004. This status report describes activities conducted in accordance with the approved Revised RAWP dated June 11, 2004.

### INTRODUCTION

The Former Gorham Manufacturing facility is located at 333 Adelaide Avenue, Providence, Rhode Island (the Site). The contaminant of concern for groundwater is primarily PCE. As discussed in the Remedial Action Work Plan and subsequent revisions, the PCE source area in the vicinity of the former building W is the area of concern being treated, using an in-situ application of sodium permanganate, to achieve the site-specific remedial goal of 7,700 micrograms per liter (ug/L).

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### **FIELD ACTIVITIES**

The following field activities were conducted in September 2004:

# Injection Well Installation

Nine permanganate injection wells were installed between September 20 and September 24, 2004 as outlined in the Revised RAWP dated June 11, 2004 (Figure 2). The wells were constructed of 2-inch diameter PVC and were advanced to depths ranging from 45 feet to 70 feet below ground surface (bgs) in the treatment area and were finished with road-boxes. Due to grout seeping into 04IS03, the well was re-drilled on September 28, 2004.

The well screen injection interval for each well is listed below:

| Injection Well Location | Injection Interval (feet bgs) |
|-------------------------|-------------------------------|
| 04 I S 01               | 50 to 70                      |
| 04 I S 02               | 50 to 70                      |
| 04 I S 03               | 40 to 60                      |
| 04 I S 04               | 25 to 45                      |
| 04 I S 05               | 30 to 50                      |
| 04 I N 01               | 30 to 50                      |
| 04 I N 02               | 30 to 50                      |
| 04 I N 03               | 30 to 50                      |
| 04 I N 04               | 35 to 55                      |

### Permanganate Injection

The permanganate injections were started on September 28 and were finished on October 4, 2004. Per the Revised RAWP 24,400 pounds of oxidant as sodium permanganate was applied to the treatment zone. The liquid sodium permanganate solution (40%) was mixed with water to produce a 10% solution for injection.

The final injection volumes for each injection well are listed below:

| Injection Well Location | Injection Volume (gallons) |  |  |  |  |
|-------------------------|----------------------------|--|--|--|--|
| 04IS01                  | 3,434                      |  |  |  |  |
| 04IS02                  | 2,913                      |  |  |  |  |
| 04IS03                  | 2,491                      |  |  |  |  |
| 04IS04                  | 3,531                      |  |  |  |  |
| 04IS05                  | 2,841                      |  |  |  |  |
| 04IN01                  | 1,460                      |  |  |  |  |
| 04IN02                  | 1,450                      |  |  |  |  |
| 04IN03                  | 1,362                      |  |  |  |  |

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| 04IN04 | 1,415  |
|--------|--------|
| Total  | 20,897 |

## Monitoring Activities

During injection activities field parameters were measured in selected treatment area monitoring wells daily and in all treatment area wells weekly. Field measurements included oxidation/reduction potential (ORP), dissolved oxygen (DO), pH, temperature, and specific conductance (SC). Groundwater elevation measurements were also collected during injection activities to confirm that significant groundwater mounding was not occurring. These results are presented in Table 1. Current monitoring activities include weekly Field parameter measurements for ORP, DO, temperature, pH, and SC.

## **SUMMARY OF ANALYTICAL DATA**

None this period.

#### **FUTURE ACTIVITIES**

Field parameter measurements will continue to be collected weekly for ORP, DO, temperature, pH, and SC during October. Groundwater samples will be collected for VOC analysis (EPA Method 8260) approximately 4 to 8 weeks post-injection from seven wells within the treatment area (MW-112, MW-209D, MW-205, MW 101-S&D, and MW-202S&D).

Groundwater samples will be collected from all 21 source area monitoring wells for VOC analysis (EPA Method 8260) approximately 12 to 16 weeks post-injection. The samples collected 12 to 16 weeks post-injection will constitute the first round of quarterly sampling.

Following the 12 to 16 week post-injection groundwater sampling for VOCs, the quarterly monitoring program will begin, and an additional three (3) quarters of groundwater sampling will be conducted. Field parameter measurements will also be conducted during the quarterly groundwater sampling events.

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If you have any questions, please contact Ed Van Doren at (978) 691-2130.

Sincerely,

SHAW ENVIRONMENTAL, INC.

Edward Pillam Joan

Edward P. Van Doren, PE

Project Manager

### Attachments

cc: Craig Roy, RIDEM OWR
Greg Simpson, Textron
Dave McCabe, Textron
Jamieson Schiff, Textron
Thomas Dellar, City of Providence

Karriem Van Leesten, City of Providence

Amelie Mailloux, Stop & Shop

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### **CERTIFICATIONS**

The following certifications are provided pursuant to Rule 9.19 of the Remediation Regulations:

I, Edward P. Van Doren, as an authorized representative of Shaw Environmental, Inc. and the person responsible for the preparation of this Monthly Status Report dated October 13, 2004, certify that the information contained in this report is complete and accurate to the best of my knowledge.

Edward P. Van Doren, P.E. Project Manager

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We, Textron, Inc., as the party responsible for submittal of this Monthly Status Report, certify that this report is a complete and accurate representation of the contaminated site and the release, and contains all known facts surrounding the release, to the best of our knowledge.

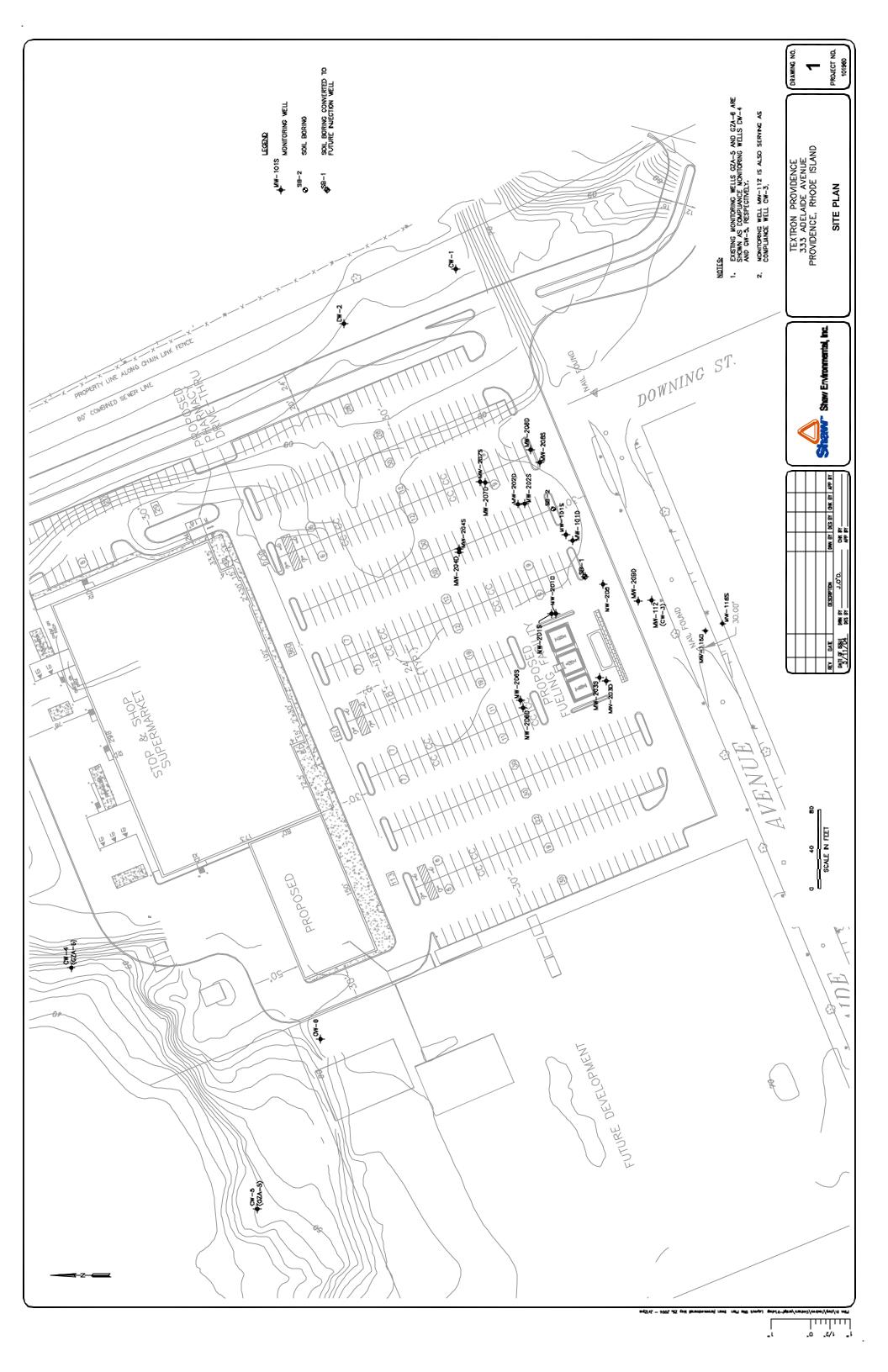
Certification on behalf of Textron Inc.

Gregory L. Simpson

10/18/04

Project Manager

Date:



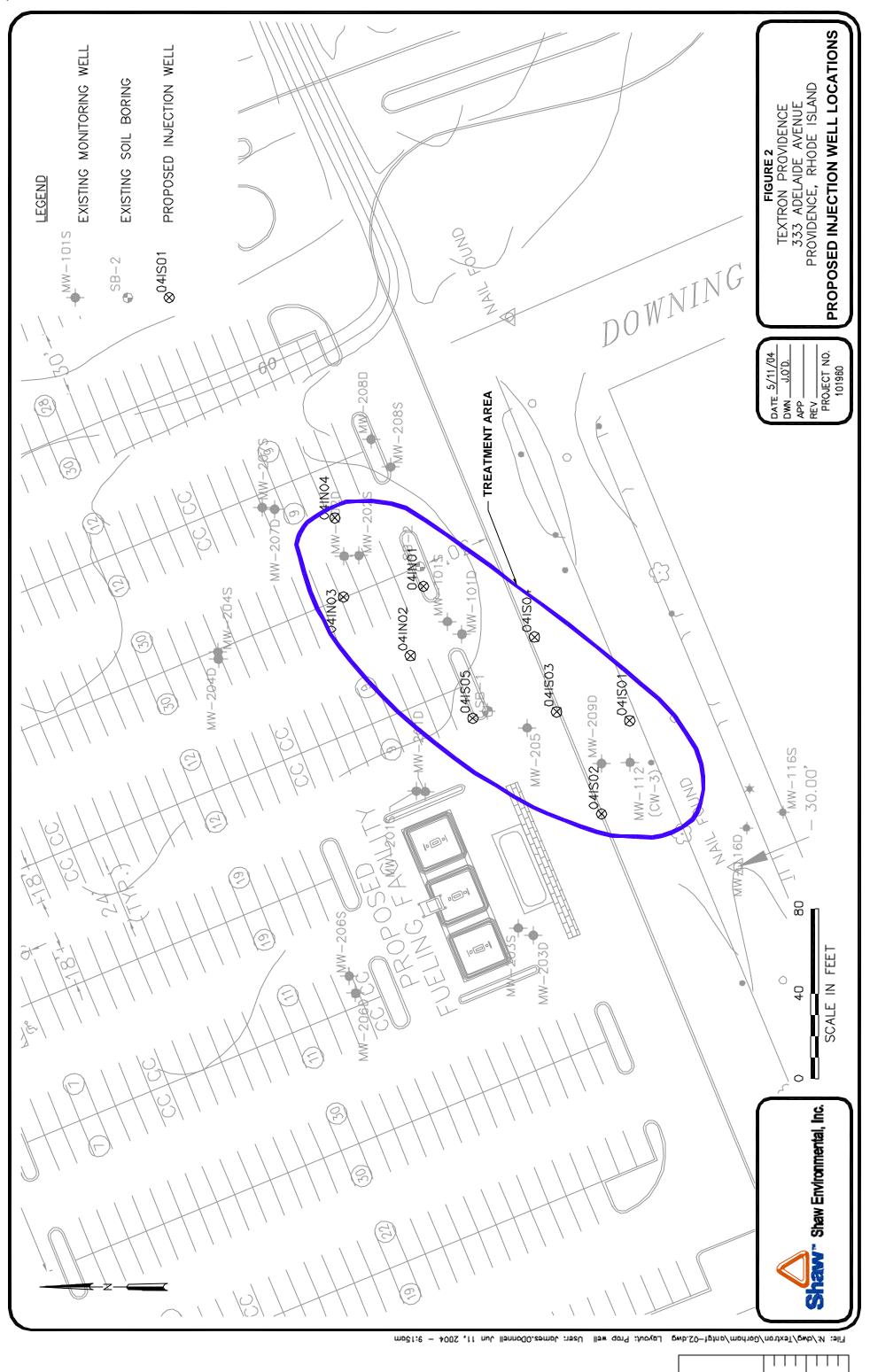


Table 1
Field Parameters

| Well ID | Date     | DTW   | Temperature | Specific<br>Conductivity | ORP   | рН         | DO   |
|---------|----------|-------|-------------|--------------------------|-------|------------|------|
|         |          | feet  | °C          | mS/cm                    | mV    | std. units | mg/L |
| MW-205  | 09/24/04 | 25.71 |             |                          |       |            | J    |
|         | 09/27/04 | 25.58 | 14.78       | 0.106                    | 181.0 | 5.63       | 2.23 |
|         | 09/28/04 | 25.66 |             |                          | 10110 | 0.00       |      |
|         | 09/29/04 | 25.59 | 14.47       | 1.549                    | 18.1  | 6.41       | 1.48 |
|         | 09/30/04 | 25.52 | 16.37       | 1.392                    | 150.0 | 4.85       |      |
|         | 10/01/04 | 25.52 | 15.01       | 1.782                    | 247.0 | 6.61       | 2.54 |
|         | 10/03/04 | 25.46 | 14.88       | 0.964                    | 232.5 | 6.12       | 8.69 |
|         |          | NM    | 15.12       | 2.236                    | 404.0 | 6.84       |      |
|         | 10/07/04 | 25.48 | 14.96       | 2.114                    | 286.0 | 6.79       |      |
| MW-201D | 09/24/04 | 25.03 |             |                          |       | 011.0      | 0.00 |
|         | 09/27/04 | 24.97 |             |                          |       |            |      |
|         | 09/28/04 | 25.01 |             |                          |       |            |      |
|         | 09/29/04 | 25.10 | 14.19       | 4.455                    | 158.0 | 6.65       | 0.53 |
|         | 09/30/04 | 24.83 |             |                          |       | 0.00       | 0.00 |
|         | 10/01/04 | 24.90 |             |                          |       |            |      |
|         | 10/03/04 | 24.84 |             |                          |       |            |      |
|         | 10/04/04 | 24.79 | 14.55       | 0.939                    | 411   | 6.94       | 9.27 |
|         | 10/07/04 | 24.83 | 14.56       | 0.885                    | 331   | 6.94       |      |
| MW-201S | 09/24/04 | 24.99 | 1 1100      | 0.000                    | - 551 | 0.0 .      | 7.00 |
|         | 09/27/04 | 24.94 | 14.78       | NM                       | NM    | NM         | NM   |
|         | 09/28/04 |       | 0           |                          |       |            |      |
|         | 09/29/04 | 24.93 | 14.57       | 2.469                    | 215.0 | 6.59       | 1.82 |
|         | 09/30/04 | 24.84 |             |                          |       | 0.00       |      |
|         | 10/01/04 | 24.82 |             |                          |       |            |      |
|         | 10/03/04 | 24.73 |             |                          |       |            |      |
|         | 10/04/04 | 24.72 |             |                          |       |            |      |
|         | 10/07/04 | 24.79 | 14.77       | 3.333                    | 330   | 7.09       | 3.34 |
| MW-206S | 09/24/04 | 24.83 |             | 0.000                    |       |            | 0.0. |
|         | 09/27/04 | 24.80 |             |                          |       |            |      |
|         | 09/28/04 |       |             |                          |       |            |      |
|         | 09/29/04 | 24.80 | 14.58       | 1.950                    | 303.6 | 6.65       | 2.65 |
|         | 09/30/04 | 24.71 |             |                          | 333.5 | 0.00       |      |
|         | 10/01/04 | 24.69 |             |                          |       |            |      |
|         | 10/03/04 | 24.63 |             |                          |       |            |      |
|         | 10/04/04 | 24.58 |             |                          |       |            |      |
|         | 10/07/04 | 24.63 | 15.05       | 1.951                    | 340   | 6.94       | 5.51 |
| MW-206D | 09/24/04 | 25.00 | .0.00       |                          | 0.0   | 0.0 .      | 0.0. |
| 2002    | 09/27/04 | 24.97 |             |                          |       |            |      |
|         | 09/28/04 | 24.97 |             |                          |       |            |      |
|         | 09/29/04 | 24.99 | 14.20       | 0.530                    | 266.3 | 6.03       | 1.02 |
|         | 09/30/04 | 24.88 | 17.20       | 0.000                    | 200.0 | 3.00       | 1.02 |
|         | 10/01/04 | 24.85 |             |                          |       |            |      |
|         | 10/03/04 | 24.79 |             |                          |       |            |      |
|         | 10/03/04 | 24.74 |             |                          |       |            |      |
|         | 10/07/04 | 24.80 | 14.90       | 0.590                    | 310   | 5.76       | 7.78 |
| MW-203S | 09/24/04 | 25.15 | 17.50       | 0.000                    | 0.10  | 3.70       | 70   |
| 2000    | 09/27/04 | 25.13 |             |                          |       |            |      |
|         | 09/28/04 | 25.11 |             |                          |       |            |      |
|         | 09/26/04 | 25.12 | 14.78       | 1.309                    | 339.8 | 6.56       | 0.67 |

Table 1
Field Parameters

| Well ID | Date     | DTW    | Temperature | Specific<br>Conductivity | ORP   | рН         | DO   |
|---------|----------|--------|-------------|--------------------------|-------|------------|------|
|         |          | feet   | °C          | mS/cm                    | mV    | std. units | mg/L |
|         | 09/30/04 | 24.99  |             |                          |       |            |      |
|         | 10/01/04 | 24.99  |             |                          |       |            |      |
|         | 10/03/04 | 24.94  |             |                          |       |            |      |
|         | 10/04/04 | 24.88  |             |                          |       |            |      |
|         | 10/07/04 | 24.94  | 15.78       | 1.975                    | 270   | 7.03       | 2.14 |
| MW-203D | 09/24/04 | 25.13  |             |                          |       |            |      |
|         | 09/27/04 | 25.10  |             |                          |       |            |      |
|         | 09/28/04 | 25.10  |             |                          |       |            |      |
|         | 09/29/04 | 25.09  | 14.36       | 0.668                    | 332.8 | 5.98       | 1.04 |
|         | 09/30/04 | 24.95  |             |                          |       |            |      |
|         | 10/01/04 | 24.95  |             |                          |       |            |      |
|         | 10/03/04 | 24.93  |             |                          |       |            |      |
|         | 10/04/04 | 24.83  |             |                          |       |            |      |
|         | 10/07/04 | 24.93  | 14.59       | 1.162                    | 278   | 6.73       | 1.80 |
| MW-112  | 09/24/04 | 26.86  |             |                          |       |            |      |
|         | 09/27/04 | NM     | 14.61       | 0.997                    | 442   | 4.92       | 2.78 |
|         | 09/28/04 | NM     | 14.48       | 1.013                    | 285   | 5.30       | 1.25 |
|         | 09/29/04 | 26.88  | 14.24       | 0.995                    | 334.4 | 5.33       | 1.53 |
|         | 09/30/04 | 26.61  | 15.05       | 0.596                    | 333.8 | 5.77       | 1.78 |
|         | 10/01/04 | 26.65  | 14.67       | 1.782                    | 348   | 5.86       | 3.56 |
|         | 10/03/04 | 26.60  | 13.91       | 1.478                    | 271.1 | 5.28       | 6.88 |
|         | 10/04/04 | 26.49  | 14.36       | 1.795                    | 342   | 5.92       | 2.98 |
|         | 10/07/04 | 26.62  | 14.64       | 0.840                    | 353   | 4.92       | 4.00 |
| MW-209  | 09/24/04 | 26.53  |             |                          |       |            |      |
|         | 09/27/04 | 26.69  | 15.55       | 0.460                    | 399   | 5.99       | 3.19 |
|         | 09/28/04 | 26.65  | 14.36       | 0.487                    | 76    | 6.53       | 1.19 |
|         | 09/29/04 | 26.55  | 14.16       | 0.477                    | 201.4 | 6.50       | 2.22 |
|         | 09/30/04 | Purple |             |                          |       |            |      |
|         | 10/01/04 | Purple |             |                          |       |            |      |
|         | 10/03/04 | Purple |             |                          |       |            |      |
|         | 10/04/04 | Purple |             |                          |       |            |      |
|         | 10/07/04 | Purple |             |                          |       |            |      |
| MW-116S | 09/24/04 | 25.60  |             |                          |       |            |      |
|         | 09/28/04 | 25.58  |             |                          |       |            |      |
|         | 09/29/04 | 25.56  |             |                          |       |            |      |
|         | 09/30/04 | 25.44  |             |                          |       |            |      |
|         | 10/01/04 | 25.45  |             |                          |       |            |      |
|         | 10/03/04 | 25.52  |             |                          |       |            |      |
|         | 10/04/04 | 25.32  |             |                          |       |            |      |
|         | 10/07/04 | 25.35  | 16.77       | 0.539                    | 325   | 5.32       | 7.14 |
| MW-16D  | 09/24/04 | 25.15  |             |                          |       |            |      |
|         | 09/28/04 | 25.12  |             |                          |       |            |      |
|         | 09/29/04 | 25.11  | 13.91       | 0.267                    | 331.4 | 5.29       | 3.29 |
|         | 09/30/04 | 24.91  |             |                          |       |            |      |
|         | 10/01/04 | 24.95  |             |                          |       |            |      |
|         | 10/03/04 | 24.92  |             |                          |       |            |      |
|         | 10/04/04 | 24.80  |             |                          |       |            |      |
|         |          | NM     | 14.26       | 0.573                    | 342   | 5.10       | 3.87 |
| MW-204S | 09/24/04 | 25.12  |             |                          |       |            |      |

Table 1
Field Parameters

| Well ID    | Date     | DTW   | Temperature | Specific<br>Conductivity | ORP   | рН         | DO   |
|------------|----------|-------|-------------|--------------------------|-------|------------|------|
|            |          | feet  | °C          | mS/cm                    | mV    | std. units | mg/L |
|            | 09/27/04 | 25.08 |             |                          |       |            |      |
|            | 09/28/04 | 25.10 |             |                          |       |            |      |
|            | 09/29/04 | 25.10 | 14.16       | 0.763                    | 159.4 | 6.78       | 4.26 |
|            | 09/30/04 | 24.96 |             |                          |       |            |      |
|            | 10/01/04 | 24.94 |             |                          |       |            |      |
|            | 10/03/04 | 24.89 |             |                          |       |            |      |
|            | 10/04/04 | 24.85 |             |                          |       |            |      |
| MW-204D    | 09/24/04 | 25.18 |             |                          |       |            |      |
| 20 .2      | 09/27/04 | 25.14 |             |                          |       |            |      |
|            | 09/28/04 | 25.16 |             |                          |       |            |      |
|            | 09/29/04 | 25.18 | 14.07       | 1.139                    | 266.5 | 6.82       | 0.10 |
|            | 09/30/04 | 25.03 | 14.07       | 1.100                    | 200.0 | 0.02       | 0.10 |
|            | 10/01/04 | 24.99 |             |                          |       |            |      |
|            | 10/03/04 | 24.96 |             |                          |       |            |      |
|            | 10/03/04 | 24.91 |             |                          |       |            |      |
| MW-207S    | 09/24/04 | 24.55 |             |                          |       |            |      |
| 10100-2073 | 09/27/04 | 24.52 |             |                          |       |            |      |
|            | 09/28/04 |       |             |                          |       |            |      |
|            | 09/29/04 | 24.52 | 14.44       | 0.945                    | 71.0  | 6.10       | 0.41 |
|            | 09/30/04 | 24.38 | 14.44       | 0.943                    | 7 1.0 | 0.10       | 0.41 |
|            | 10/01/04 | 24.40 |             |                          |       |            |      |
|            | 10/01/04 | 24.40 |             |                          |       |            |      |
|            | 10/03/04 | 24.34 |             |                          |       |            |      |
|            | 10/04/04 | 24.35 | 14.96       | 0.526                    | 340   | 5.33       | 4.13 |
|            | 10/01/04 | 24.00 | 14.90       | 0.520                    | 340   | 5.55       | 4.10 |
| MW-207D    | 09/24/04 | 24.46 |             |                          |       |            |      |
| _          | 09/27/04 | 24.43 |             |                          |       |            |      |
|            | 09/28/04 |       |             |                          |       |            |      |
|            | 09/29/04 | 24.43 | 14.22       | 0.881                    | 198.5 | 5.65       | 2.64 |
|            | 09/30/04 | 24.33 |             | 0.001                    | 100.0 | 0.00       | 2.01 |
|            | 10/01/04 | 24.28 |             |                          |       |            |      |
|            | 10/03/04 | 24.23 |             |                          |       |            |      |
|            | 10/04/04 | 24.21 |             |                          |       |            |      |
|            | 10/07/04 | 24.27 | 14.76       | 0.557                    | 347   | 5.69       | 3.01 |
| MW-208S    | 09/24/04 | 25.76 | 1 111 0     | 0.007                    |       | 0.00       | 0.01 |
| 11111 2000 | 09/27/04 | 25.73 |             |                          |       |            |      |
|            | 09/28/04 | 25.74 |             |                          |       |            |      |
|            | 09/29/04 | 25.73 | 14.44       | 0.710                    | 255.7 | 5.70       | 0.60 |
|            | 09/30/04 | 25.60 | 17.77       | 0.7 10                   | 200.1 | 3.10       | 0.00 |
|            | 10/01/04 | 25.57 |             |                          |       |            |      |
|            | 10/01/04 | 25.54 |             |                          |       |            |      |
|            | 10/03/04 | 25.50 |             |                          |       |            |      |
|            | 10/04/04 | 25.57 | 14.83       | 0.740                    | 328   | 5.42       | 3.51 |
| MW-208D    | 09/24/04 |       | 14.03       | 0.740                    | 320   | 5.42       | 3.31 |
| 14144-5000 | 09/24/04 | 25.86 | 14.16       | 0.658                    | 275.8 | 5.83       | 0.50 |
|            | 09/29/04 | 25.78 | 14.10       | 0.000                    | 210.0 | 5.63       | 0.50 |
|            | 10/01/04 |       |             |                          |       |            |      |
|            |          | 25.75 |             |                          |       |            |      |
|            | 10/03/04 | 25.72 |             |                          |       |            |      |
|            | 10/04/04 | 25.67 |             |                          |       |            |      |

Table 1
Field Parameters

| Well ID            | Date     | DTW    | Temperature | Specific<br>Conductivity | ORP    | рН         | DO     |
|--------------------|----------|--------|-------------|--------------------------|--------|------------|--------|
|                    |          | f 1    | °C          |                          | >/     | -1.1 -11-  | /1     |
|                    | 10/07/01 | feet   | -           | mS/cm                    | mV     | std. units | mg/L   |
| 1 11 1 1 1 1 1 1 1 | 10/07/04 | 25.74  | 14.67       | 0.785                    | 292    | 5.43       |        |
| MW-202D            | 09/24/04 | 24.45  | 16.14       | 0.565                    | 465.6  | 5.44       | 7.89   |
|                    | 09/27/04 | 24.38  | 15.23       | 0.573                    | 308    | 6.08       |        |
|                    | 09/29/04 | 24.42  | 14.26       | 0.99                     | 208.3  | 5.85       | 1.84   |
|                    | 09/30/04 | 24.28  | 14.87       | 0.458                    | 199    | 6.92       | 7.68   |
|                    | 10/01/04 | 24.25  | 14.51       | 1.263                    | 390    | 6.41       | 3.23   |
|                    | 10/03/04 | 24.23  | 14.82       | 0.983                    | 229.4  | 6.62       | 12.79  |
|                    | 10/04/04 | 24.18  | 14.82       | 1.602                    | 448    | 6.38       |        |
|                    | 10/07/04 | 24.24  | 14.96       | 0.899                    | 341    | 5.78       | 6.58   |
| MW-202S            | 09/24/04 | 24.33  | 15.75       | 0.200                    | 363.0  | 5.41       | 8.62   |
|                    | 09/27/04 | 24.26  | 14.54       | 0.915                    | 337.0  | 5.77       | 6.75   |
|                    | 09/29/04 | 24.31  | 14.66       | 0.802                    | 198.5  | 6.80       | 4.12   |
|                    | 09/30/04 | 24.17  | 15.03       | 0.357                    | 126.0  | 9.34       | 8.70   |
|                    | 10/01/04 | 24.13  | 15.39       | 15.12                    | 403    | 8.41       | 11.93  |
|                    | 10/03/04 | 24.10  | 14.54       | 0.68                     | 214    | 6.83       | 12.38  |
|                    | 10/04/04 | 24.07  | 14.98       | 1.420                    | 397.0  | 6.80       | 4.48   |
|                    | 10/07/04 | 24.13  | 15.04       | 0.827                    | 340.0  | 5.77       | 9.55   |
| MW-101S            | 09/24/04 | 25.15  | 16.13       | 1.066                    | 207.9  | 3.99       | 7.39   |
|                    | 09/27/04 | 25.08  | 14.85       | 1.062                    | 200    | 5.63       | 2.65   |
|                    | 09/28/04 | 25.12  | 14.80       | 1.062                    | 154    | 5.81       | 0.62   |
|                    | 09/29/04 | 25.01  | 14.60       | 1.08                     | 187.0  | 5.82       | 0.88   |
|                    | 09/30/04 | 25.00  | 14.93       | 1.129                    | 145.0  | 5.93       | 2.53   |
|                    | 10/01/04 | 24.98  | 15.00       | 2.658                    | 388.0  | 6.68       | 4.74   |
|                    | 10/03/04 | 24.93  | 14.46       | 1.443                    | 240.6  | 5.72       | 5.72   |
|                    | 10/04/04 | 24.91  | 14.84       | 1.887                    | 138.0  | 6.38       | 2.00   |
|                    | 10/07/04 | 24.81  | 14.92       | 1.070                    | 184    | 5.46       |        |
| MW-101D            | 09/24/04 | 25.15  | 15.60       | 0.173                    | 57.6   | 5.36       |        |
|                    | 09/27/04 | 25.06  | 14.98       | 0.145                    |        | 6.53       |        |
|                    | 09/28/04 | 25.09  | 15.33       | 0.190                    | 185    |            | 8.97   |
|                    |          |        | Purple      | Purple                   | Purple | Purple     | Purple |
|                    | 10/01/04 | •      | Purple      | Purple                   | Purple | Purple     | Purple |
|                    | 10/03/04 | 24.92  | 14.08       | 0.616                    |        | 6.37       | 11.36  |
|                    |          | Purple | Purple      | Purple                   | Purple | Purple     | Purple |
|                    |          | Purple | Purple      | Purple                   | Purple | Purple     | Purple |